

AMENDMENTS TO THE SPECIFICATION

Please replace the Abstract section of the specification rewritten as follows:

The invention relates to a short-cycle arc welding system comprising a robot having at least one arm which can be displaced in at least one coordinate axis (x, y, z), a welding head which is positioned on the arm and on which a holding device or holding an element and a lifting device are provided, said lifting device moving the holding device back and forth in relation to the welding head and a measuring system for determining the relative position between a component and an element which is held by the holding device and is to be welded to the component. Said measuring system comprises a foot which is mounted on the welding head and which is embodied in such a way that, during operation, it is in contact with the component in order to determine the relative position between the element and the component.